INDEX TO SCIENTIFIC NAMES

HERPETOLOGICA

Volume 40 December 1984

Abastor 388
Abronia 373, 374, 379, 380
bogerti 375, 379
chiszari 375, 379
ornelasi (n. sp.) 373–375, 379, 380
reidi 373–375, 379, 380
Acacia 250
Acrostichum 444
Adelphicos 10, 21–23, 26–28
latifasciatus 377
quadrivirgatus 23, 30
Aeshina 267, 269, 270
sp. 265, 267–270
Agalychnis moreleti 378
Agkistrodon 406
contortrix 406
piscivorus 203
Agropyrum scabriglume 49
Alligator mississippiensis 448–450
Alnus sieboldiana 194
Alopoglossus 154, 157
copii 157
festae 157
lehmanni (n. sp.) 154, 155, 157
plicatus 157
Alsophis 8–12, 14–18, 23, 24, 28
cantherigerus 11–13, 16, 24
rufiventris 12, 13, 16, 20
vudii 12, 13, 16, 20
Alytes 97
Amastridium 10, 21, 23, 27, 28
veliferum 23, 30
Amblyrhynchus 272
Ambystoma 176, 238, 240–243, 328
amblycephalum 241, 242, 244
andersoni (n. sp.) 238–243
annulatum 217
bombypellum 242, 244
cingulatum 217
dumerilii 240–242, 244
flavipiperatum 242
gracile 214
granulosum 241, 242, 244
jeffersonianum 212, 217
lacustris 241, 244
laterale 212, 217
lermaensis 241, 242, 244
mabeei 217
macrodactylum 214
maculatum 217
mexicanum 240, 241, 243, 244, 328
opacum 217
ordinarium 241, 242, 244
platineum 212, 217
rosaceum 241, 242
sp. 244
talpoideum 217
taylori 240–242, 244
texanum 217
tigrinum 176–180, 214, 217, 238, 240–244, 328
tremblayi 212, 217
"z" 243
Ameiva quadrilineata 70
Amphibolurus ornatus 343
Amphiuma means 213
pholeter 213
tridactylum 213
Aneides aeneus 437
Annona glabra 444
Anolis 133, 222, 272, 273, 275, 277, 278
aeneus 421
barkeri 377, 378
biporcatus 377, 378
carolinensis 272, 277–279
compressicaudus 377
distichus 118, 121–127, 129, 131–135
distichus dominicensis 118–122, 125, 127–135, 137
distichus favillarum 132
distichus ignigularis 118–122, 124, 125, 127–135, 137
distichus ravitergum 131, 132
garmani 277
pygmaeus 377
Anotheca spinosa 378
Aphelocoma coerulescens 433
ultramarina 433
Apostolepis 10, 17
assimilis 14, 20
Araucaria 50
Arizona elegans 203
Atelognathus 47–50
grandisonae 47, 48, 50
nitoi 48, 50
patagonicus 47–50
praebasalticus 47–50
praebasalticus agilis 48, 50
praebasalticus dobeslawi 48, 50
praebasalticus luisi 48, 50
praebasalticus praebasalticus 48
reverberii 47, 48, 50
salai (n. sp.) 47–50
solitarius 48, 50
Atelopus oxyrhynchus 36
Atractus 10, 21, 23, 25–27
elaps 23, 27, 30
major 23, 27, 30
Azorella trifurcata 49

Batrachophrynus 47
Batrachoseps attenuatus 327, 328
Berberis buxifolia 49
Bipes 25
Blarina brevicauda 56, 58, 64, 65
Boiga 223
Bolitoglossa 132
sp. 327, 328
Bothrops aurifer 377
barbouri 378
godmani 378
rowleyi 377
Bufo 220, 265, 292
americanus 292–296
attenuatus 167
boreas 362
bufo 310
canorus 297
cavifrons 379
clamita 265
typhonius 370
Bungarus 409
multicinctus 406, 407, 409
spp. 406, 409
Calamodontophis 17
Caledia captiva 132
Callopisma 388
Calopteryx maculata 410
Cambarus diogenes 84
Carcharodon carcharias 174
Caretta 281
caretta 169, 175, 281, 283, 285, 286
Carphophis 10, 25, 26, 404
Cavanillesia 231
Cecropia sp. 444
Celestus rozellae 377
Centrolenella 36
fleischmanni 378
Centrotelma cryptomelan 371
Chelonia 286
mydas 170, 205, 210, 331
Chelus fimbriatus 45
Chelydra 3
osceola 223
serpentina 3, 4, 306
Chersodromus 10, 21, 23, 26–28
liebmanni 23, 30
Chiliotrichium rosmarinifolium 49
Chilomeniscus 9
Chiropterotriton multidentatus 115
Chrysemys 95
picta 5, 76–78, 80, 95, 282, 306
Clelia 8–15, 17
clelia 13, 15, 20
occipitolutea 15
scytalina 11–14
Cnemaspis 149, 152, 153
kandiana 151–153
kandiana tropidogaster 149
kumpoli 150, 151, 153
littoralis 149, 151–153
nairi (n. sp.) 149, 150, 152, 153
ornata 149–153
species A 153
tropidogaster 149, 151–153
Cnemidophorus 71, 98, 131, 133, 245, 246, 250, 251
arubensis 342
hyperythrus 70
inornatus 245–249
lemniscatus 245, 246
neomexicanus 245–251
septemvittatus 249, 250
tesselatus 245, 246, 248–251
tigris 133, 210, 246–248, 422
tigris gracilis 133, 246–248
tigris marmoratus 132, 133, 245–250
uniparens 246
velox 246
Coleonyx 337
variegatus 110
Colobanthus quitensis 49
subulatus 49
Colostethus alboguttatus 36
Coniophanes 9, 10, 14, 21–24, 27, 28
fissidens 23, 24, 28
imperialis 23, 28, 30
Conolophus pallidus 70, 205–209
subcristatus 205, 206, 208, 210
Conophis 10, 16, 17
Contia 10
Cophomantis puntillata 371
Cordia 206–209
Crocodylus acutus 444, 448–450
niloticus 448, 449
porosus 448, 449
Crotalus 182
horridus 190
lepidus 433
molossus 433
pricei 433
viridus 182, 184, 188–190, 192, 203
viridus lutosus 190
viridus oreganus 182–190
Crotaphytus wislizenii 422
Cryophis 10, 21, 23, 24, 28
hallbergi 22, 30
Cryptobranchus alleganiensis 213, 327, 328
Cyclura carinata 70, 207, 209
cornuta stejnegeri 207, 209
pinguis 70
Cynops pyrrhogaster 59, 328
Deinagkistrodon 406
acutus 406–409
Deirochelys reticularia 282
Dermochelys 169
coriacea 169, 170, 172, 174, 464
coriacea schlegli 464
Desmognathus 110, 116
aeneus 217
auriculatus 218
brimleyorum 217
fuscus 218, 327, 328, 413, 437, 441, 442
imitator 218
monticola 218

ochrophaeus 105, 106, 108, 110–116, 218, 410–412, 414, 437, 441, 442
quadramaculatus 218
santeetlah 218
spp. 413
welteri 218
Diadophis 8, 10
punctatus 438, 441
Dicamptodon copei 214
ensatus 214
Dipsas 10, 23, 26
catesbyi 23, 30
indica 23, 30
pavonina 23, 26, 30
vermiculata 23, 30
Dipsosaurus 415
dorsalis 70, 91, 210, 415, 417, 420–422
Drepanoides 12, 15
Drosophila spp. 411
Drymobius chloroticus 378
Dyscophus 149
Echinotriton 56, 62
andersoni 56, 60–62, 64
chinhaiensis 62
Elachistocleis ovalis 139
Elaphe triaspis 433
Eleutherodactylus 31, 234
bicumulus 32, 37
boconoensis 37
briceni 31, 37
calcarulatus 33
colostichos 37
ginesi 236
gladiator 236, 237
incanus 33
lancinii 37
leoni 234–237
myersi 234, 236, 237
nicefori 236
ocreatus 236, 237
orestes 236
orocostalis 37
pygmaeus 378
pyrrhomerus 234, 236, 237
quinquagesimus 33
racenisi 32, 37
repens (n. sp.) 234–237
trepidotus 236, 237
unistrigatus 31, 33, 234
vanadise (n. sp.) 31–34, 36, 37
vidua 236
williamsi 31, 32, 36
Elseya latisternum 306
Emoia 158, 161, 163
adspersa 158–162, 164
adspersum 161
atrocostata 158, 159, 161
lawesii 158, 160–164
microlepis 158
nigra 160
parvisquameus 158
Emydoidea blandingi 80, 282
Emydura macquari 306
subglossa 306
Eridiphas 9, 10, 21–25, 28
slevini 22
Erythrolamprus 10, 17
aesculapii 14, 20
bauperthuissii 14, 20
Eucalyptus fasciculosa 337
olbliqua 337
rostrata 337
Eumeces 110, 194, 196, 354
adspersus 158, 161
fasciatus 70, 71
microlepis 158, 159, 161
okadae 194–196, 198, 199
serratus 158, 159
Euonymus 273
Euprepes parvisquameus 158, 159, 161
Eurycea 322, 323, 328, 329
aquatica 216, 217
bislineata 212, 216, 329, 413
junaluska 212
latitans 215
longicauda 217, 322–326, 328
lucifuga 217, 322, 323, 325, 326, 328
multiplicata 216
nana 215
neotenes 216
quadridigitata 215, 320, 321, 412, 413
troglodytes 215
tynerensis 216
Farancia 10, 25, 26, 388, 392, 393, 395–397, 399, 400, 402–404
abacura 388, 391–393, 399, 400, 403, 404
abacura abacura 388, 394–398, 400, 401, 404, 405
abacura reinwardtii 388, 393–401, 404, 405
erytrogramma 388, 394, 396–398, 400, 401, 403, 404
erytrogramma erytrogramma 388, 405
Gambusia affinis 382
Gamochaeta nivalis 49
Gastrotheca 139, 145, 147
Gehyra variegata 342
Geococcyx californianus 433
Geocrinia victoriana 461
Geophis 9, 10, 21–23, 25–28, 404
bicolor 23, 30
carinosus 23, 30, 378
laticinctus 377, 378
multitorques 23, 30
nasalis 23, 26
semidoliatus 23, 30
Gerrhonotus 353
coeruleus 349–354
multicarinatus 210
Gomesophis 17, 18
Gonatodes kandianus tropidogaster 152
Gyrinophilus palleucus 216
porphyriticus 216, 327, 328
subterraneus 216
Haideotriton wallacei 216

Heliarchon 62
Helicops 8–12, 14, 404
pastazae 11
Hemidactylium scutatum 215
Heterodon 8, 10, 12
platyrhinos 11
Holbrookia maculata 70
Hoplodactylus maculatus 352
Hydrangea macrophylla 194
Hydrilla 444, 446
verticillata 444
Hydrodynastes 8, 10–12, 14
gigas 11
Hydromantes sp. 327, 328
Hydromorphus 27
Hyla 265, 308, 366
appendiculata 371
arborea japonica 308
bistincta 378
boans 370
calcarata 370–372
chaneque 378
ebraccata 452–456, 458–462
fasciata 370–372
geographica 366, 370, 371
geographica semilineata 370
granosa 370
gratiosa 164–166
hobbsi 369, 370
hutchinsi (n. sp.) 366–372
japonica 308–313
kanaima 370–372
microcephala 452–462
microderma 370–372
phlebodes 452–462
platydactyla 36
pseudopuma 265–267, 269
valancifer 379
versicolor 296
Hyalella sp. 49
Hylella punctatissima 371
Hylopsis 36
Hynobius lichenatus 327
naevisu 327
Hypsiglena 10, 22, 24, 28
torquata 22, 30, 464
Hypsirhynchus 8, 10, 13, 16
ferox 13, 20
Icterus 132, 133
galbula 133
galbula bullocki 133
galbula galbula 133
Iguana iguana 210, 277
Imantodes 10, 22–24, 28
cenchoa 22, 30
gemmistratus 22, 30
lentiferus 22, 30
Lacerta spp. 385
vivipara 196, 352
Lampropeltis 9
triangulum 346
Lantana 206–209
Leimadophis 17
almadensis 14, 20
poecilogyrus 14, 20
reginae 14, 20
Lepidochelys kempi 170, 174
Lepomis 133
macrochirus 133
macrochirus macrochirus 133
macrochirus purpurescens 133
Leposoma 154, 155
annectans 155
hexalepis 155
scincoides 155
Leptodeira 9, 10, 14, 15, 21–25, 27, 28
annulata 22, 30
frenata 22, 30
latifasciata 21, 22, 25, 28, 30
nigrofasciata 25
punctata 22, 30
septentrionalis 22, 23
septentrionalis polysticta 22, 30
septentrionalis septentrionalis 22
Leptotyphlops 53
Leurognathus marmoratus 218
Liolaemus lineomaculatus 49
Liophis 10, 17
anomalus 14, 20
jaegeri 14, 20
miliaris 14, 20
undulatus 10, 14, 17, 20
Lygophis 17
lineatus 14, 20
Lygosoma adspersum 161, 162
laterale 341
lawesii 162
Lystrophis 10, 17
d'orbignyi 14, 20
Mabouia lawesii 158, 159, 162
Mabouya adspersa 158, 161
Mabuia parvisquameus 158, 159, 161
Macroclemys temmincki 282
Mangifera indica 444
Manolepis 10, 14
putnami 14, 20
Marisa 42
Masticophis bilineatus 433
taeniatus 203
Mertensiella 56, 66
caucasica 56, 66, 67
Microtus 382
Micrurus 15
elegans 377, 378
Moloch 91
Montricardia arborescens 444
Mus 133
musculus 57, 133
musculus domesticus 133
musculus musculus 133
Myriophyllum 49
Naja naja 406, 409
naja atra 406, 407, 409
Natrix mauria 203

Necturus 212, 326
beyeri 215
lewisi 215
maculosus 215, 328, 329
punctatus 215
Nerodia 8, 203
rhombifera 404
sipedon 203
taxispilota 200–204
Ninia 10, 21, 23, 25–28
diademata 23, 30, 378
sebae 23
Nothofagus 50
pumilio 49, 50
Notophthalmus meridionalis 217
perstriatus 217
viridescens 59, 101, 103, 217, 328
Oedura 337
ocellata 342
Opheodrys vernalis 438
Opuntia 206–209, 273
echios 205
Orconectes palmeri croelanus 83
virilis 83
Otophryne 149
robusta 139, 149
Oxyrhopus 8, 10–15, 17
fitzingeri 12, 13, 15, 17, 20
formosus 12, 13, 15, 20
melanogenys 11–13, 15
petola 12, 13, 15, 20
rhombifera 12, 13, 15, 20
trigeminus 12, 13, 15, 20
Pachytriton brevipes 56, 65, 66
Palaeopleurodeles 62
Paramesotriton 56
caudopunctatus 56, 64, 65
chinensis 63–65
hongkongensis 59, 64
Pelomedusa subrufa 306
Phacelia secunda 49
Philautus leucorhinus 461
Philodryas 8, 10, 12–18, 24, 28
chamissonis 13, 16, 20
elegans 16
olfersi 13, 20
patagoniensis 13, 20
viridissimus 11, 13–16, 24
Phimophis 8, 10, 12, 13, 15, 17
guianensis 13, 20
Phrynops 45
geoffroanus 45
gibbus 43
nasutus 45
schoepffii 38, 42
vanderhaegei 43, 45
Phrynopus 237
Phrynosoma douglassi 464
m'calli 93
Phyllodactylus 25
marmoratus 337–342
Phymaturus 258, 263
mallimacii 258
palluma 258–263
palluma palluma 258
palluma patagonicus 258
patagonicus 258
patagonicus indistinctus 258
patagonicus payuniae 258
Physalaemus pustulosus 461
Pipa 225, 231
arrabali 225
aspera 225, 226
carvalhoi 225
myersi (n. sp.) 225–233
parva 225–227, 230, 232, 234
snethlageae 225
Pittosporum tobira 273
Pituophis melanoleucus 203
Platanus 273
Platemys 38, 39, 43
macrocephala (n. sp.) 38–45
pallidipectoris 38, 45
platycephala 38, 45
radiolata 38, 39, 41, 43–45
sp. 45
spixii 38
Platynion 18
Plectrohyla 378
hartwegi 378
matudai 378
Plethodon 115, 314, 316, 320, 321, 413
cinereus 108, 320, 321, 413, 436–438, 441, 442
dorsalis 315, 319–321, 413
glutinosus 314–316, 319–321, 327, 328
hoffmani 320
jordani 111, 115, 116
neomexicanus 320
richmondi 320
spp. 413
vehiculum 320
Pleurodeles waltl 59, 66
Pleurodema bufonina 49
Pliocercus 10, 21, 23, 28
elapoides 23, 30, 378
Podocarpus 272
Polychrus 262, 263
Pomacea 42
Procambarus clarkii 83
fallax 84
vioscai 83
Protopterus 466
Prunus 273
Pseudablabes 16
Pseudacris 266
ornata 252–256
Pseudemys 4, 382
concinna 383
floridana 383
rubiventris 383
scripta 4, 299, 300, 302–306, 382–386
Pseudoboa 8, 10, 12, 13, 15, 17
coronata 13, 20

neuwiedi 13, 20
nigra 12, 13, 15, 20
Pseudobranchus striatus 213, 328
Pseudoeryx 388, 392, 393, 395–397, 399, 400, 402–404
plicatilis 388, 393, 394, 398, 400, 405
Pseudohemisus 138, 139, 142, 143, 145–147, 149
granulosus 138–147
longimanus 146
verrucosus 146
Pseudophryne 135, 461
Pseudotomodon 10, 17
trigonatus 14, 20
Pseudotriton montanus 216
ruber 216
Pteridium sp. 36
Ptychoglossus 154, 157
festae 157
plicatus 154
Ptychohyla euthysanota 378
ignicolor 378
leonhardschultzei 378
schmidtorum 378
Ptychophis 17, 19
Pyracantha 273
Quercus virginiana 273
Quiscalus 133
quiscula 133
quiscula quiscula 133
quiscula versicolor 133
Rana 220, 265, 308, 356, 363, 365
aurora 265
berlandieri berlandieri 358
berlandieri forreri 358
catesbeiana 164–166
esculenta 310
forreri 356, 358–363, 365
japonica 310
magnaocularis 358
nigromaculata 310
palmipes 370
pipiens 167, 253, 356, 358–364
tagoi 310
temporaria 310, 362
utricularia 164–166
Regina 82, 83, 85, 86
alleni 86
grahami 82, 84–86
rigida 86
septemvittata 82–86
Rhachidelus 12, 15
brazili 15
Rhadinaea 10, 16, 21, 22, 24, 27, 28
brevirostris 10, 16, 21, 24, 27, 28, 30
decorata 24, 30
flavilata 24, 28, 30
fulvivittis 24, 28, 30
gaigeae 24, 30
lachrymans 24, 30
lateristriga 28
occipitalis 24, 27, 28, 30
quinquelineata 24, 30
Rhadinophanes 24
Rhantus guticollis 265–267, 269
Rheobatrachus 219, 220
silus 219, 220
Rhyacosiredon 242
Rhyacotriton olympicus 214
Rhytidosperma 49
Salamandra 66, 326
atra 66
laticeps 62
salamandra 66, 328
Salix 273
Saphenophis 16
Sator 25
Sauromalus 272
obesus 205, 210
varius 205, 210
Scaphiophryne 138
Sceloporus 131, 133, 263, 277, 425
clarki 434
cyanogenys 352
graciosus 95, 385
grammicus 133
jarrovi 95, 183, 277, 279, 425–434
merriami 95
occidentalis 210
olivaceus 70, 433, 434
poinsetti 422
torquatus 434
undulatus 70
virgatus 70, 71, 432
Scincella gemmingeri 378, 379
laterale 70
lateralis 110, 115
Sibon 9, 10, 21–23, 25–27
nebulata 23, 26
sanniola 23, 26, 30
Sibynomorphus 10, 23, 25, 26
mikanii 23, 30
Siphlophis 12, 15
Siren intermedia 213, 327
lacertina 213, 327
Smilisca cyanosticta 377, 378
sila 461
Somuncuria 47
Spelerpes fuscus 327
variegatus 327
Sphenodon 90, 94
Stenodactylus sthenodactylus 342
Stenorrhina degenhardti 377
Stereochilus marginatus 216
Sternotherus 3
minor 1–6
odoratus 3, 383, 384
Stipa brevipes 49
Storeria 8
Sympetrum 267, 270
nigrocreatum 265, 267–270
Tachymenis 8, 17, 18
Tantalophis 24
Tantilla 97
Taricha granulosa 60, 214

rivularis 60, 214
torosa 60, 214, 328
Telmatobius 47
Terminalia amazonica 444
Thamnodynastes 10, 16, 17
sp. 14, 20
strigatus 14, 20
Thamnophis 8, 51–53, 191
butleri 52
marcianus 52–54
proximus 52
radix 52–54
radix haydeni 52–54
radix radix 51–54
sirtalis 51–54
Thomomys 131–133
bottae 133
bottae actuosus 133
bottae ruidosae 133
Tomodon 10, 13, 16, 17
dorsatus 14, 20
Tretanorhinus 10, 13, 27, 28
nigroluteus 23, 30
Trimeresurus 406, 409
mucrosquamatus 406, 407, 409
stejnegeri stejnegeri 406, 408, 409
Trimorphodon 9, 24
Trionyx 4
spiniferus 4
spp. 4
triunguis 4
Tripanurgos 8, 10, 12, 13, 15, 17
compressus 13, 20
Tropidodipsas 10, 23, 25, 26
annulifera 23, 26, 30
fischeri fischeri 23, 30
fischeri kidderi 23, 30
sartori 23, 26, 30
Tropidodryas 8, 10, 13, 16
serra 13
Tupinambis 465
nigropunctatus 465
Tylototriton 56, 62
primigenius 62
verrucosus 56–60, 64, 66
Typhlomolge rathbuni 215
robusta 215
tridentifera 215
Typhlotriton spelaeus 216
Umbrivaga 17
Uroderma 133
bilobatum 133
bilobatum convexum 133
bilobatum davisi 133
Urosaurus ornatus 70, 95
Urotheca 17
williamsi 14, 20
Uta 71, 74, 272, 434
stansburiana 68–71, 73, 97, 116, 192, 342, 421
Varanus exanthematicus 465
gouldii 70
griseus 93
komodoensis 70
Vipera 406, 409
berus 190, 192
russelli formosensis 406–409
xanthina 406, 409
Waglerophis 10, 17
merremii 14, 20
Xantusia vigilis 422
Xenodon 8–10, 12–14, 17, 18
neuwiedi 14, 20
severus 11, 14
Xenopholis 14, 17
scalaris 14, 20
Xenopus 220
laevis 167
Xenosaurus grandis 377–379

TOPICAL INDEX

HERPETOLOGICA

Volume 40 December 1984

ACTIVITY, *Crotalus viridis oreganus* (seasonal) 182–193; *Crocodylus acutus* (daily and seasonal patterns) 444–451.

AEROBIC CAPACITY, *Bufo americanus* (relation to reproductive behavior) 292–298.

ANTIPREDATOR, 4 genera salamandrids (defensive adaptations) 56–68; *Desmognathus ochrophaeus* (tail autotomy) 110–118.

AUTOTOMY, *Desmognathus ochrophaeus* (antipredator effectiveness of tail autotomy) 110–118; *Phyllodactylus marmoratus* (relation to temperature and nutritional state) 337–344.

BEHAVIOR, 4 genera salamandrids (antipredator mechanisms) 56–68; *Desmognathus ochrophaeus* (brooding) 105–109; *Desmognathus ochrophaeus* (tail autotomy) 110–118; *Dermochelys coriacea* (diving movements) 169–176; *Anolis carolinensis* (mating success) 272–280; *Bufo americanus* (reproductive behavior, aerobic capacity) 292–298; *Pseudemys scripta* (behavioral thermoregulation) 299–308; *Plethodon cinereus* (defensive behavior) 436–443; *Hyla phlebodes* (vocal behavior) 452–463.

BLOOD, *Chelonia mydas* (cytology and hematology) 331–336.

BODY SIZE, 16 spp. lizards (relation to home range size) 68–75; *Ambystoma tigrinum* (relation to lipid content and ontogeny of larvae) 176–181.

CLOACA, *Plethodon glutinosus* (anatomy) 314–321.

CLONE, *Cnemidophorus neomexicanus* (low clonal diversity) 245–252.

COMMUNICATION, *Hyla phlebodes* (vocal behavior) 452–463.

DELAYED EMERGENCE, *Chrysemys picta* (winter temperatures, survival) 76–81.

DEVELOPMENT, *Pseudohemisus* (morphology of tadpole) 138–149; *Ambystoma tigrinum* (body size and lipid content during larval ontogeny) 176–181; *Pseudacris ornata* (color) 252–257.

DIET, *Conolophus pallidus, C. subcristatus* (food types, chemical analysis) 205–212.

DIGESTION, *Conolophus pallidus, C. subcristatus* (passage time, food quality, digestive efficiency, digestion of cellulose) 205–212.

DISTRIBUTION MAPS, *Platemys macrocephala* (n. sp.), *P. radiolata* 39; *Atelognathus salai* (n. sp.) and 5 other *Atelognathus* spp. 48; *Thamnophis radix, T. marcianus* 54; *Anolis distichus ignigularis, A. d. dominicensis* 119; *Emoia adspersa, E. lawesii* 160.

DIVING, *Sternotherus minor* (aerobic and anaerobic metabolism) 1–7; *Dermochelys coriacea* (body temperatures, movements) 169–176.

EGGS, *Desmognathus ochrophaeus* (water loss) 105–109; *Plethodon cinereus* (brooding) 436–443.

ELECTROPHORESIS, *Anolis distichus* subspp. (analysis of a contact zone) 118–137; *Cnemidophorus neomexicanus* (low clonal diversity) 245–252; *Pseudemys scripta* (local genetic differentiation) 382–387.

EYE, *Rana pipiens, R. forreri* (pupillary response) 356–366.

FECUNDITY, *Caretta caretta* (model for assessing fecundity) 281–291.

FEEDING ECOLOGY, 16 spp. lizards (foraging in relation to home range size) 68–75; *Regina* spp. (estimation of prey size and number) 82–88; *Conolophus pallidus, C. subcristatus* (food choice) 205–212.

GENE FLOW, *Anolis distichus ignigularis, A. d. dominicensis* (contact zone) 118–137; *Pseudemys scripta* (local genetic differentiation) 382–387.

GENITAL DUCTS, *Eurycea lucifuga, E. longicauda* (anatomy, histology) 322–330.

GEOGRAPHIC LOCALITIES

Alabama, *Plethodon glutinosus* 314–321.

Argentina, *Atelognathus salai* (n. sp.) 47–51.

Arizona, *Sceloporus jarrovi* 425–436.

Australia, *Phyllodactylus marmoratus* 337–344.

Bolivia, *Platemys macrocephala* (n. sp.) 38–46.

Brazil, *Platemys macrocephala* (n. sp.) 38–46.

California, *Dipsosaurus dorsalis* 415–424; *Gerrhonotus coeruleus* 349–355.

Canada, salamander larvae 212–218.

Chile, *Phymaturus palluma* 258–264.

Colombia, *Alopoglossus* (n. sp.) 154–158; *Eleutherodactylus repens* (n. sp.) 234–237; *Hyla hutchinsi* (n. sp.) 366–372.

Connecticut, *Bufo americanus* 292–298.

Florida, *Pseudacris ornata* 252–257.

Galapagos, *Conolophus pallidus, C. subcristatus* 205–212.

Georgia, *Caretta caretta* 281–291.

Grand Cayman, *Chelonia mydas* 331–336.

Hispaniola, *Anolis distichus* 118–137.

Idaho, *Crotalus viridis oreganus* 182–193.

Illinois, *Eurycea lucifuga, E. longicauda* 322–330.

India, *Cnemaspis nairi* (n. sp.) 149–154.

Indiana, *Ambystoma tigrinum* 176–181.

Japan, *Eumeces okadae* 194–199; *Hyla japonica* 308–313.

Louisiana, *Anolis carolinensis* 272–280.

Mexico, *Abronia ornelasi* (n. sp.) 373–381; *Ambystoma andersoni* (n. sp.) 238–245.

Michigan, *Chrysemys picta* 76–81.

Micronesia, *Emoia adspersa, E. lawesii* 158–164.

New Mexico, *Cnemidophorus neomexicanus* 245–252.

Panama, *Pipa myersi* (n. sp.) 225–234; *Croco-*

dylus acutus 444–451; *Hyla phlebodes* 452–463.
Polynesia, *Emoia adspersa, E. lawesii* 158–164.
Rhode Island, *Dermochelys coriacea* 169–176.
South Carolina, *Hyla gratiosa, Rana catesbeiana, R. utricularia* 164–169; *Pseudemys scripta* 299–308, 382–387.
Taiwan, 6 spp. elapid and viperid snakes 406–410.
Tennessee, *Desmognathus ochrophaeus* 410–415.
United States, salamander larvae 212–218.
Venezuela, *Eleutherodactylus vanadise* (n. sp.) 31–37.
Virginia, *Desmognathus ochrophaeus* 410–415; *Nerodia taxispilota* 200–204.

GROWTH, *Dipsosaurus dorsalis* (life history) 415–424; *Sceloporus jarrovi* (life history) 425–436.

HEMIPENES, 6 spp. Taiwanese snakes (descriptions) 406–410.

HISTOLOGY, *Hyla japonica* (spermatogenic cycle) 308–313; *Plethodon glutinosus* (spermathecal anatomy) 314–321; *Eurycea lucifuga, E. longicauda* (male genital ducts) 322–330; *Desmognathus ochrophaeus* (sperm storage) 410–415.

HOME RANGE, 16 spp. lizards (relation to body size) 68–75; *Dipsosaurus dorsalis* (size, dispersal) 415–424; *Crocodylus acutus* (determined by telemetry) 444–451.

ILLUMINATION, *Rana pipiens, R. forreri* (pupillary response) 356–366.

IMMUNOLOGY, South American xenodontines (microcomplement fixation) 8–20; Central American xenodontines (microcomplement fixation) 21–30.

INHERITANCE, *Pseudacris ornata* (control of color polymorphism) 252–257.

KARYOTYPE, *Phymaturus palluma* (sex determination) 258–264.

KEY, salamander larvae (U.S., Canada) 212–218; *Hyla geographica* group 371.

LACTATE, *Sternotherus minor* (diving metabolism) 1–7; *Hyla gratiosa, Rana catesbeiana, R. utricularia* (metabolism during swimming) 164–169.

LARVAE, *Pseudohemisus* (morphology of tadpole) 138–149; *Hyla gratiosa, Rana catesbeiana, R. utricularia* (larval metabolism during swimming) 164–169; *Ambystoma tigrinum* (body size and lipid content of larvae) 176–181; salamanders (key to U.S. and Canadian species) 212–218; *Pipa myersi* (description) 225–234; *Pseudacris ornata* (development of color) 252–257; *Hyla pseudopuma* (vulnerability to predation) 265–271; *Hyla hutchinsi* (description) 366–372.

LIFE HISTORY, *Chrysemys picta* (hatchling survival) 76–81; *Crotalus viridis oreganus* (growth, sex ratio, population structure, clutch size, fat bodies) 182–193; *Eumeces okadae* (clutch size, biennial reproduction) 194–199; *Hyla pseudopuma* (vulnerability to predation) 265–271; *Anolis carolinensis* (mating success) 272–280; *Caretta caretta* (fecundity model) 281–291; *Dipsosaurus dorsalis* (growth, sex ratio, population structure and density, survivorship, longevity, movements) 415–424; *Sceloporus jarrovi* (growth, maturity, clutch size, survivorship, population structure and density, life table) 425–436.

LIPIDS, *Ambystoma tigrinum* (lipid content of larvae) 176–181; *Crotalus viridis oreganus* (relation to reproduction) 182–193; *Eumeces okadae* (relation to reproduction) 194–199; *Phyllodactylus marmoratus* (importance of caudal lipid) 337–344.

MARK-RECAPTURE, *Eumeces okadae* (biennial reproduction) 194–199; *Anolis carolinensis* (breeding success) 272–280; *Caretta caretta* 281–291; *Gerrhonotus coeruleus* (thermal biology, survivorship) 349–355; *Dipsosaurus dorsalis* (life history) 415–424; *Sceloporus jarrovi* (life history) 425–436.

MATING, *Anolis carolinensis* (breeding success of males) 272–280; *Plethodon glutinosus* (onset of mating) 314–321.

METABOLISM, *Sternotherus minor* (aerobic and anaerobic metabolism during diving) 1–7; *Hyla gratiosa, Rana catesbeiana, R. utricularia* (anaerobic metabolism during swimming) 164–169; *Bufo americanus* (reproductive behavior, aerobic capacity) 292–298.

MICROCLIMATE, *Pseudemys scripta* (thermoregulation in a nuclear reactor cooling reservoir) 299–308.

MORPHOLOGY, *Eleutherodactylus vanadise* (n. sp.) 31–37; *Platemys macrocephala* (n. sp.) 38–46; *Atelognathus salai* (n. sp.) 47–51; 4 genera salamandrids (antipredator adaptations) 56–68; *Pseudohemisus* (tadpole) 138–149; *Cnemaspis nairi* (n. sp.) 149–154; *Alopoglossus lehmanni* (n. sp.) 154–158; *Emoia adspersa, E. lawesii* (redefinition) 158–164; *Pipa myersi* (n. sp.) 225–234; *Eleutherodactylus repens* (n. sp.) 234–237; *Ambystoma andersoni* (n. sp.) 238–245; *Plethodon glutinosus* (spermatheca) 314–321; *Eurycea lucifuga, E. longicauda* (male genital ducts) 322–330; *Hyla hutchinsi* (n. sp.) 366–372; *Abronia ornelasi* (n. sp.) 373–381; *Farancia, Pseudoeryx* (comparisons of skulls) 388–405; 6 spp. elapid and viperid snakes (hemipenes) 406–410.

NEOTROPICS, xenodontine systematics 8–20, 21–30.

NESTS, *Chrysemys picta* (winter temperatures) 76–81; *Plethodon cinereus* (egg brooding) 436–443.

OXYGEN CONSUMPTION, *Sternotherus minor* (diving metabolism) 1–7; *Bufo americanus* (relation to reproductive behavior) 292–298.

PARENTAL CARE, *Plethodon cinereus* (defensive behavior) 436–443.

PARTHENOGENESIS, *Cnemidophorus neomexicanus* (low clonal diversity) 245–252.

PHEROMONES, *Thamnophis radix* (species specificity of sex pheromone) 51–55; *Notophthalmus viridescens* (sex identification) 101–105.

PHYLOGENY, South American xenodontines (immunological comparisons) 8–20; Central American xenodontines (immunological comparisons) 21–30.

POLYMORPHISM, *Pseudacris ornata* (control of color polymorphism) 252–257.
PREDATION, *Hyla pseudopuma* (ontogenetic changes in vulnerability) 265–271.
PUPILLARY RESPONSE, *Rana pipiens, R. forreri* (description) 356–366.
REPRODUCTION, *Crotalus viridis oreganus* (body size, clutch size, cycling, reproductive effort, fat bodies) 182–193; *Eumeces okadae* (biennial, brooding, clutch size, fat bodies, cycling) 194–199; *Nerodia taxispilota* (spermatogenic cycle) 200–204; *Anolis carolinensis* (breeding success) 272–280; *Caretta caretta* (age-specific fecundity) 281–291; *Bufo americanus* (calling and searching behavior) 292–298; *Hyla japonica* (spermatogenesis) 308–313; *Plethodon glutinosus* (onset of mating) 314–321; *Eurycea lucifuga, E. longicauda* (anatomy of male genital ducts) 322–330; *Gerrhonotus coeruleus* (thermal biology of gravid females) 349–355; *Desmognathus ochrophaeus* (sperm storage) 410–415; *Sceloporus jarrovi* (maturity, clutch size) 425–436.
SEX DETERMINATION, *Phymaturus palluma* (karyotype) 258–264.
SKULL, *Farancia, Pseudoeryx* (morphological comparisons) 388–405.
SPERMATHECA, *Plethodon glutinosus* (anatomy) 314–321.
SPERMATOGENESIS, *Nerodia taxispilota* (maturity, cycling) 200–204; *Hyla japonica* (number of germ cells throughout year) 308–313.
SPERM COMPETITION, *Desmognathus ochrophaeus* (sperm storage after oviposition) 410–415.
STARVATION, *Phyllodactylus marmoratus* (relation to autotomy) 337–344.
SURVIVORSHIP, *Chrysemys picta* (hatchlings) 76–81; *Hyla pseudopuma* (vulnerability to predation) 265–271; *Gerrhonotus coeruleus* (relation to thermal biology) 349–355; *Dipsosaurus dorsalis* (life history) 415–424; *Sceloporus jarrovi* (life history) 425–436.
SWIMMING, *Hyla gratiosa, Rana catesbeiana, R. utricularia* (larval metabolism) 164–169; *Dermochelys coriacea* (body temperatures, movements) 169–176.
SYSTEMATICS, South American xenodontines (immunological comparisons) 8–20; Central American xenodontines (immunological comparisons) 21–30; *Eleutherodactylus vanadise* (n. sp.) 31–37; *Platemys macrocephala* (n. sp.) 38–46; *Atelognathus salai* (n. sp.) 47–51; *Anolis distichus* complex (contact zone) 118–137; *Pseudohemisus* (morphology of tadpole) 138–149; *Cnemaspis nairi* (n. sp.) 149–154; *Alopoglossus lehmanni* (n. sp.) 154–158; *Emoia adspersa, E. lawesii* (taxonomic status and distribution) 158–164; *Pipa myersi* (n. sp.) 225–234; *Eleutherodactylus repens* (n. sp.) 234–237; *Ambystoma andersoni* (n. sp.) 238–245; *Hyla hutchinsi* (n. sp.) 366–372; *Abronia ornelasi* (n. sp.) 373–381; *Pseudemys scripta* (local genetic differentiation) 382–387; 6 spp. elapid and viperid snakes (hemipenes) 406–410.
TECHNIQUES, *Regina* spp. (estimation of prey size and number by X-ray of gastroliths) 82–88; *Caretta caretta* (model for assessing age-specific fecundity) 281–291.
TELEMETRY, *Dermochelys coriacea* (body temperatures, movements) 169–176; *Conolophus pallidus, C. subcristatus* (food selection) 205–212; *Pseudemys scripta* (thermoregulation) 299–308; *Crocodylus acutus* (movements) 444–451.
TEMPERATURE, *Chrysemys picta* (winter nest temperatures) 76–81; *Dermochelys coriacea* (body temperatures) 169–176; *Pseudemys scripta* (behavioral thermoregulation) 299–308; *Phyllodactylus marmoratus* (relation to autotomy) 337–344; *Gerrhonotus coeruleus* (body temperatures of viviparous lizard) 349–355.
TRAIL, *Thamnophis radix* (specificity of sex pheromone trail) 51–55.
VIVIPARITY, *Gerrhonotus coeruleus* (thermal biology) 349–355.
VOCALIZATIONS, *Hyla phlebodes* (vocal behavior) 452–463.
WATER, *Desmognathus ochrophaeus* (water loss of eggs) 105–109.
ZOOGEOGRAPHY, *Abronia ornelasi* (highlands of southern Mexico) 373–381.